SD11
A571
#335

NORTH CENTRAL FOREST EXPERIMENT STATION
Research Note NC-335
1992 FOLWELL AVE ST PAUL MN 55108 FOREST SERVICE-U.S.D.A.
1986

# TIMBER VOLUME IN WISCONSIN 1983

**Jerold T Hahn,** *Principal Mensurationist*

ABSTRACT.—The fourth inventory of Wisconsin's forest resources shows a 39-percent increase in growing-stock volume between 1968 and 1983, from 11.2 to 15.5 billion cubic feet.

KEY WORDS: Timber resources, statistics, growing-stock, sawtimber.

Volume of growing-stock[1] on commercial forest land in Wisconsin increased from 11.2 billion cubic feet in 1968 to 15.5 billion cubic feet in 1983, a 39-percent gain:

| Growing stock | Survey year 1968[2] | 1983 | Change since 1968 |
|---|---|---|---|
| | (Million cubic feet) | | (Percent) |
| Softwoods | 2,519 | 3,638 | 44 |
| Hardwoods | 8,649 | 11,860 | 37 |
| Total | 11,168 | 15,498 | 39 |

Softwood growing-stock volume increased by 44 percent; hardwood volume grew by 37 percent.

These volume gains were made in spite of a less than 2 percent increase in commercial forest area. These increased volumes reflect an increase in average growing-stock volume per acre, from 768 cubic feet per acre in 1968 to 1,050 cubic feet per acre in 1983.

Growing-stock volume did not increase uniformly throughout the State (table 1). The largest per unit increase was in the Central Unit, and the smallest increase was in the Northwest Unit. The largest volume is in the Northwest Unit, and the smallest volume is in the Southeast Unit. Figure 1 shows the unit and county boundaries for the five inventory units in Wisconsin.

The aspen species group is the most abundant species group in Wisconsin and accounts for almost 17 percent of the growing-stock volume. Its volume increased by almost 21 percent between surveys. Hard maple—primarily sugar maple—and select red oak—primarily northern red oak—are the second and third most plentiful, each comprising 9 percent of the total. The fourth largest group, red and jack pine, had 8 percent of the volume, a 91-percent increase between inventories. As shown in the following tabulation, other prominent species include the other oaks and the spruce-fir groups:

| Species group | Growing stock |
|---|---|
| | (Million cubic feet) |
| Aspen | 2,625 |
| Hard maple | 1,495 |
| Select red oak | 1,420 |
| Red and jack pine | 1,299 |
| Other oaks | 1,257 |
| Spruce-fir | 877 |
| Other hardwoods | 5,063 |
| Other softwoods | 1,462 |
| Total | 15,498 |

Included in the growing-stock volume are 35.0 billion board feet of sawtimber.[3] The oak groups, select

[1]*Net volume in cubic feet of growing-stock trees 5 inches d.b.h. and larger from the stump to a variable 4-inch top diameter.*

[2]*Figures have been adjusted from those published after the 1968 survey to conform to 1983 volumes because of changes in survey procedures and definitions.*

[3]*Net volumes of the saw log portion of live sawtimber trees (softwoods 9 inches d.b.h. or larger and hardwoods 11 inches and larger) from the stump to a point in the central stem at which utilization for sawn products is limited by large branches, forks, or other defects or by a diameter outside bark of 7 inches for softwoods and 9 inches for hardwoods.*

LIBRARY
DEC 17 1986
ROCKY MOUNTAIN STATION

Table 1.--Net volume of growing stock in 1968 and 1983 by forest inventory unit and change since 1968, Wisconsin

| Forest inventory unit | 1968 growing-stock volume | 1983 growing-stock volume | Change since 1968 |
|---|---|---|---|
| | Million cubic feet | | Percent |
| Northeast | 3,626 | 4,474 | +23 |
| Northwest | 3,898 | 5,311 | +36 |
| Central | 1,740 | 2,869 | +65 |
| Southwest | 1,240 | 1,936 | +56 |
| Southeast | 664 | 908 | +37 |
| Total | 11,168 | 15,498 | +39 |

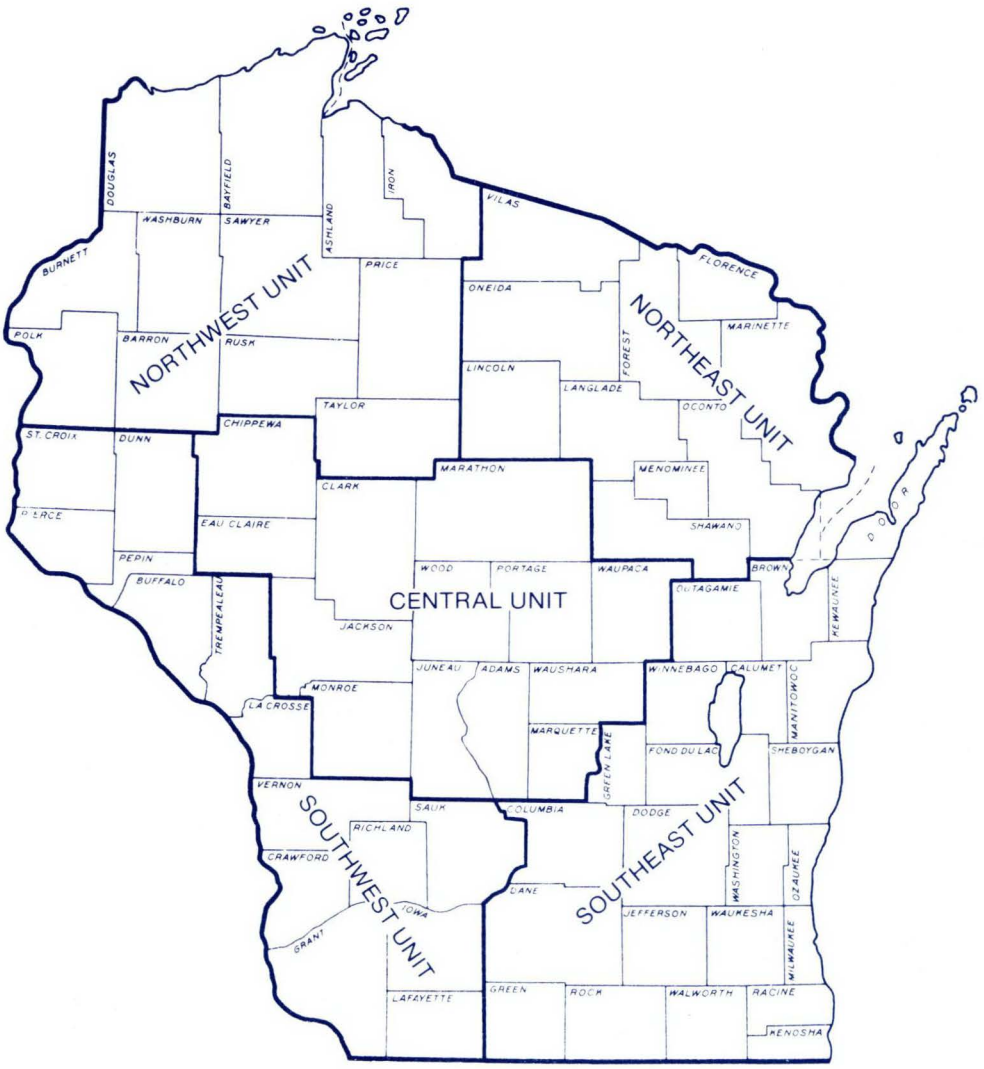


Figure 1.—*Wisconsin's five forest inventory units.*

red oak, and other oaks have the greatest sawtimber volume, followed by the aspen, hard maple and pine groups rounding out the top five:

| Species group | Sawtimber (Million board feet)[4] |
|---|---|
| Select red oak | 4,555 |
| Other oaks | 4,049 |
| Aspen | 4,041 |
| Hard maple | 3,384 |
| Red and jack pine | 3,066 |
| Spruce-fir | 1,740 |
| Other hardwoods | 9,077 |
| Other softwoods | 5,122 |
| Total | 35,035 |

The major concentrations of timber are found in the northern part of the State:

| Forest inventory unit | Growing-stock volume | |
|---|---|---|
| | Softwoods | Hardwoods |
| | (Million cubic feet) | |
| Northeast | 1,424 | 3,050 |
| Northwest | 1,283 | 4,028 |
| Central | 703 | 2,166 |
| Southwest | 92 | 1,844 |
| Southeast | 136 | 772 |
| Total | 3,638 | 11,860 |

Northern Wisconsin contains less than 40 percent of the State's land, but more than 60 percent of its growing-stock volume. Bayfield County in the Northwest Unit has the most growing-stock and sawtimber volume of any county in the State, followed by Marinette and Forest Counties in the Northeast Unit (tables 2 and 3). These two northern units contain 72 percent of the State's aspen volume and 60 percent of the pine volume. The Central Unit also has a significant proportion (32 percent) of the State's pine volume.

The sampling error in this inventory was ±1.05 percent for the State's 15.5 billion cubic feet of growing-stock material.

This forest inventory was conducted by the North Central Forest Experiment Station, USDA Forest Service. More intensified field sampling was made possible by additional funding provided the North Central Station by the State Legislature through the Wisconsin Department of Natural Resources.

---

[4]*International 1/4-inch rule.*

Table 2.--Net volume of growing stock on commercial forest land by species group[1/] and county, Wisconsin, 1983

(In thousand cubic feet)

| County | All species | Softwoods: Red and jack pine | Softwoods: Spruce-fir | Softwoods: Other softwoods | Hardwoods: Select red oak | Hardwoods: Other oaks | Hardwoods: Hard maple | Hardwoods: Aspen | Hardwoods: Other hardwoods |
|---|---|---|---|---|---|---|---|---|---|
| **NORTHEAST UNIT** | | | | | | | | | |
| Florence | 284,632 | 9,409 | 28,712 | 42,471 | 7,865 | 1,254 | 56,515 | 65,715 | 72,691 |
| Forest | 649,211 | 24,182 | 97,962 | 89,107 | 2,757 | -- | 141,136 | 76,158 | 217,909 |
| Langlade | 423,998 | 7,727 | 43,996 | 28,854 | 7,343 | 291 | 97,931 | 83,082 | 154,774 |
| Lincoln | 341,784 | 36,758 | 29,637 | 17,857 | 14,214 | 109 | 39,455 | 78,972 | 124,782 |
| Menominee | 419,553 | 6,282 | 10,378 | 151,964 | 34,389 | 6,943 | 68,751 | 32,168 | 108,678 |
| Marinette | 669,096 | 65,547 | 50,084 | 96,815 | 40,767 | 29,696 | 45,369 | 131,635 | 209,183 |
| Oconto | 401,444 | 49,053 | 9,146 | 76,055 | 23,901 | 5,049 | 22,236 | 74,694 | 141,310 |
| Oneida | 484,290 | 72,381 | 70,711 | 62,391 | 27,117 | 1,114 | 27,946 | 88,668 | 133,962 |
| Shawano | 328,496 | 23,645 | 9,390 | 50,090 | 22,132 | 5,979 | 62,048 | 24,260 | 130,952 |
| Vilas | 471,572 | 67,765 | 34,896 | 60,347 | 29,209 | 2,356 | 77,675 | 88,154 | 111,170 |
| Total | 4,474,076 | 362,749 | 384,912 | 675,951 | 209,694 | 52,791 | 639,062 | 743,506 | 1,405,411 |
| **NORTHWEST UNIT** | | | | | | | | | |
| Ashland | 651,025 | 18,933 | 112,328 | 77,976 | 6,794 | 141 | 124,845 | 108,105 | 201,903 |
| Barron | 144,244 | 713 | 579 | 3,043 | 28,970 | 18,464 | 4,502 | 42,443 | 45,530 |
| Bayfield | 856,259 | 120,845 | 46,999 | 63,749 | 107,971 | 3,514 | 72,378 | 224,386 | 216,417 |
| Burnett | 278,576 | 71,391 | 357 | 8,090 | 33,600 | 26,595 | 4,106 | 76,028 | 58,409 |
| Douglas | 546,017 | 75,440 | 81,161 | 26,043 | 20,538 | 3,294 | 27,163 | 121,447 | 190,931 |
| Iron | 443,803 | 6,102 | 77,491 | 60,046 | 7,631 | -- | 80,295 | 64,185 | 148,053 |
| Polk | 210,261 | 6,668 | 692 | 5,304 | 42,055 | 30,252 | 6,804 | 55,670 | 62,816 |
| Price | 478,144 | 31,304 | 56,734 | 44,159 | 11,081 | 469 | 59,126 | 92,538 | 182,733 |
| Rusk | 366,295 | 4,262 | 12,004 | 15,729 | 30,380 | 6,058 | 40,501 | 98,239 | 159,122 |
| Sawyer | 650,709 | 31,655 | 43,571 | 61,461 | 53,396 | 7,715 | 75,803 | 111,497 | 265,611 |
| Taylor | 358,765 | 2,634 | 26,205 | 23,475 | 15,272 | 416 | 45,431 | 53,468 | 191,864 |
| Washburn | 327,292 | 46,973 | 3,707 | 16,056 | 35,287 | 18,061 | 12,837 | 96,322 | 98,049 |
| Total | 5,311,390 | 416,920 | 461,828 | 405,131 | 392,975 | 114,979 | 553,791 | 1,144,328 | 1,821,438 |
| **CENTRAL UNIT** | | | | | | | | | |
| Adams | 168,308 | 76,885 | -- | 11,595 | 7,755 | 48,183 | -- | 14,550 | 9,340 |
| Chippewa | 221,462 | 7,610 | 624 | 13,979 | 25,414 | 18,725 | 12,753 | 51,923 | 90,434 |
| Clark | 315,028 | 13,850 | 1,614 | 13,226 | 39,938 | 26,867 | 11,129 | 114,536 | 93,868 |
| Eau Claire | 170,129 | 32,694 | -- | 7,054 | 16,066 | 50,310 | 1,692 | 34,207 | 28,106 |
| Jackson | 352,216 | 84,424 | -- | 23,941 | 63,963 | 73,864 | -- | 58,067 | 47,957 |
| Juneau | 226,073 | 64,101 | -- | 10,161 | 29,203 | 59,351 | 2,226 | 31,792 | 29,239 |
| Marathon | 392,263 | 3,274 | 9,902 | 39,069 | 34,127 | 3,731 | 63,910 | 67,226 | 171,024 |
| Marquette | 68,327 | 12,165 | -- | 12,917 | 5,393 | 25,548 | -- | 3,132 | 9,172 |
| Monroe | 200,384 | 18,363 | -- | 15,534 | 49,727 | 46,433 | 2,829 | 20,502 | 46,996 |
| Portage | 168,395 | 30,358 | 591 | 25,210 | 15,040 | 31,777 | 3,804 | 25,182 | 36,433 |
| Waupaca | 249,567 | 17,976 | 8,020 | 48,747 | 21,145 | 17,046 | 14,030 | 18,463 | 104,140 |
| Waushara | 156,602 | 47,200 | -- | 23,877 | 6,326 | 50,325 | -- | 9,150 | 19,724 |
| Wood | 180,111 | 14,100 | 471 | 13,523 | 22,811 | 25,059 | 3,518 | 56,164 | 44,465 |
| Total | 2,868,865 | 423,000 | 21,222 | 258,833 | 336,908 | 477,219 | 115,891 | 504,894 | 730,898 |

(Table 2 continued on next page)

[1/] Species groups: other softwoods - primarily white pine, northern white-cedar, hemlock and tamarack; other hardwoods - primarily soft maple, paper birch, basswood, elm and ash.

(Table 2 continued)

SOUTHWEST UNIT

| County | All species | Softwoods | | | Hardwoods | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Red and jack pine | Spruce-fir | Other softwoods | Select red oak | Other oaks | Hard maple | Aspen | Other hardwoods |
| Buffalo | 222,070 | 5,415 | -- | -- | 54,034 | 53,653 | 664 | 35,303 | 73,001 |
| Crawford | 174,687 | -- | -- | -- | 40,838 | 38,522 | 11,069 | 9,239 | 75,019 |
| Dunn | 189,128 | 27,050 | -- | 1,634 | 36,716 | 36,774 | 11,473 | 23,416 | 52,065 |
| Grant | 182,760 | -- | -- | 1,341 | 36,821 | 63,285 | 10,995 | 8,755 | 61,563 |
| Iowa | 106,129 | 191 | -- | 2,663 | 14,001 | 33,143 | 3,556 | 7,984 | 44,591 |
| La Crosse | 137,032 | 9,877 | -- | 2,496 | 37,183 | 29,813 | -- | 11,148 | 46,515 |
| Lafayette | 28,891 | -- | -- | -- | 1,896 | 15,613 | -- | 1,131 | 10,251 |
| Pepin | 44,697 | -- | -- | 168 | 10,063 | 3,661 | 2,524 | 5,613 | 22,668 |
| Pierce | 84,224 | 3,331 | -- | -- | 11,476 | 8,573 | 22,926 | 5,375 | 32,543 |
| Richland | 158,639 | -- | -- | -- | 18,431 | 24,960 | 27,209 | 8,686 | 79,353 |
| St. Croix | 54,936 | 7,475 | 310 | -- | 5,899 | 7,225 | | 16,825 | 17,212 |

Table 3.--Net volume of sawtimber on commercial forest land by species group[1/] and county, Wisconsin, 1983

(In thousand board feet)[2/]

| County | All species | Softwoods: Red and jack pine | Softwoods: Spruce-fir | Softwoods: Other softwoods | Hardwoods: Select red oak | Hardwoods: Other oaks | Hardwoods: Hard maple | Hardwoods: Aspen | Hardwoods: Other hardwoods |
|---|---|---|---|---|---|---|---|---|---|
| **NORTHEAST UNIT** | | | | | | | | | |
| Florence | 676,752 | 40,324 | 64,961 | 163,701 | 15,691 | 2,739 | 140,374 | 89,222 | 159,740 |
| Forest | 1,507,044 | 127,245 | 204,994 | 300,981 | 10,789 | -- | 276,188 | 157,399 | 429,448 |
| Langlade | 746,043 | 36,011 | 82,240 | 59,490 | 20,857 | -- | 216,967 | 99,012 | 231,466 |
| Lincoln | 537,299 | 64,660 | 42,974 | 67,440 | 29,172 | -- | 56,853 | 107,326 | 168,874 |
| Menominee | 1,485,899 | 24,521 | 9,610 | 701,627 | 129,246 | 23,747 | 248,699 | 51,868 | 296,581 |
| Marinette | 1,211,917 | 174,927 | 86,992 | 279,861 | 78,568 | 67,739 | 77,457 | 200,857 | 245,516 |
| Oconto | 776,203 | 110,320 | 23,491 | 206,249 | 37,685 | 13,069 | 22,442 | 117,877 | 245,070 |
| Oneida | 968,341 | 258,677 | 112,766 | 223,136 | 78,583 | 1,950 | 34,169 | 131,532 | 127,528 |
| Shawano | 801,205 | 18,543 | 18,024 | 112,764 | 78,925 | 16,339 | 220,968 | 38,798 | 296,844 |
| Vilas | 1,157,977 | 274,042 | 64,649 | 242,032 | 86,454 | 8,570 | 175,792 | 156,762 | 149,676 |
| Total | 9,868,680 | 1,129,270 | 710,701 | 2,357,281 | 565,970 | 134,153 | 1,469,909 | 1,150,653 | 2,350,743 |
| **NORTHWEST UNIT** | | | | | | | | | |
| Ashland | 1,329,025 | 63,585 | 253,867 | 258,681 | 24,764 | 700 | 217,162 | 191,534 | 318,732 |
| Barron | 328,796 | 2,754 | -- | 13,470 | 82,632 | 66,201 | 12,336 | 73,003 | 78,400 |
| Bayfield | 1,542,248 | 320,835 | 131,746 | 274,764 | 144,423 | 2,525 | 83,277 | 344,591 | 240,087 |
| Burnett | 538,202 | 120,764 | -- | 34,649 | 74,258 | 72,837 | 14,114 | 124,649 | 96,931 |
| Douglas | 925,498 | 166,810 | 165,521 | 89,720 | 35,409 | 2,306 | 47,871 | 182,191 | 235,670 |
| Iron | 922,489 | 30,287 | 177,633 | 225,621 | 10,148 | -- | 112,437 | 99,330 | 267,033 |
| Polk | 433,953 | 10,425 | 2,347 | 22,732 | 115,949 | 98,913 | 15,647 | 78,559 | 89,381 |
| Price | 862,152 | 101,433 | 111,226 | 121,124 | 12,190 | 1,869 | 97,403 | 136,866 | 280,041 |
| Rusk | 734,009 | 20,241 | 22,167 | 64,981 | 96,480 | 16,698 | 103,922 | 141,688 | 267,832 |
| Sawyer | 1,330,980 | 117,656 | 70,558 | 258,723 | 135,497 | 11,059 | 119,440 | 221,467 | 396,580 |
| Taylor | 568,777 | 9,318 | 46,719 | 70,547 | 47,402 | 1,137 | 55,141 | 44,091 | 294,422 |
| Washburn | 541,309 | 93,735 | 9,337 | 60,042 | 67,541 | 28,650 | 26,322 | 147,950 | 107,732 |
| Total | 10,057,438 | 1,057,843 | 991,121 | 1,495,054 | 846,693 | 302,895 | 905,072 | 1,785,919 | 2,672,841 |
| **CENTRAL UNIT** | | | | | | | | | |
| Adams | 289,680 | 102,033 | -- | 36,779 | 24,656 | 91,483 | -- | 15,779 | 18,950 |
| Chippewa | 486,377 | 35,154 | 2,082 | 52,459 | 83,878 | 52,253 | 33,183 | 91,495 | 135,873 |
| Clark | 581,519 | 55,016 | -- | 72,588 | 115,347 | 66,621 | 34,654 | 118,443 | 118,850 |
| Eau Claire | 276,705 | 22,486 | -- | 36,903 | 54,353 | 97,740 | 1,387 | 40,992 | 22,844 |
| Jackson | 758,779 | 163,704 | -- | 95,062 | 207,378 | 170,301 | -- | 59,137 | 63,197 |
| Juneau | 511,882 | 127,134 | -- | 40,323 | 87,423 | 155,885 | 11,438 | 30,534 | 59,145 |
| Marathon | 891,885 | 8,757 | 13,253 | 137,055 | 100,493 | 15,911 | 184,487 | 92,805 | 339,124 |
| Marquette | 194,081 | 4,592 | -- | 35,292 | 17,536 | 107,641 | -- | 4,547 | 24,473 |
| Monroe | 538,948 | 50,067 | -- | 71,444 | 174,869 | 119,366 | 9,750 | 32,694 | 80,758 |
| Portage | 390,347 | 46,169 | -- | 85,893 | 52,716 | 106,519 | 5,235 | 28,248 | 65,567 |
| Waupaca | 668,728 | 33,205 | 9,688 | 145,228 | 85,555 | 56,040 | 53,984 | 26,592 | 258,436 |
| Waushara | 312,746 | 54,671 | -- | 74,560 | 12,854 | 128,856 | -- | 9,740 | 32,065 |
| Wood | 394,059 | 38,728 | -- | 59,745 | 89,524 | 76,881 | 7,358 | 43,526 | 78,297 |
| Total | 6,295,736 | 741,716 | 25,023 | 943,331 | 1,106,582 | 1,245,497 | 341,476 | 594,532 | 1,297,579 |

(Table 3 continued on next page)

[1/] Species groups: other softwoods - primarily white pine, northern white-cedar, hemlock and tamarack; other hardwoods - primarily soft maple, paper birch, basswood, elm and ash.

[2/] International 1/4-inch rule.

(Table 3 continued)

| County | All species | Softwoods: Red and jack pine | Softwoods: Spruce-fir | Softwoods: Other softwoods | Hardwoods: Select red oak | Hardwoods: Other oaks | Hardwoods: Hard maple | Hardwoods: Aspen | Hardwoods: Other hardwoods |
|---|---|---|---|---|---|---|---|---|---|
| **SOUTHWEST UNIT** | | | | | | | | | |
| Buffalo | 670,741 | 2,993 | -- | -- | 206,157 | 211,842 | 1,574 | 104,014 | 144,161 |
| Crawford | 531,580 | -- | -- | -- | 176,224 | 129,227 | 31,952 | 16,715 | 177,462 |
| Dunn | 520,234 | 24,414 | -- | 7,207 | 149,716 | 111,758 | 30,957 | 54,748 | 141,434 |
| Grant | 651,885 | -- | -- | 7,241 | 164,905 | 232,375 | 44,562 | 8,591 | 194,211 |
| Iowa | 327,103 | -- | -- | 14,234 | 57,240 | 137,808 | 9,831 | 7,101 | 100,889 |
| La Crosse | 452,035 | 43,986 | -- | 14,283 | 160,386 | 108,558 | -- | 22,932 | 101,890 |
| Lafayette | 105,662 | -- | -- | -- | 8,956 | 72,004 | -- | 1,149 | 23,553 |
| Pepin | 148,333 | -- | -- | 654 | 37,803 | 12,255 | 10,300 | 18,271 | 69,050 |
| Pierce | 279,016 | 13,479 | -- | -- | 47,333 | 31,324 | 88,301 | 10,059 | 88,520 |
| Richland | 496,242 | -- | -- | -- | 75,642 | 90,192 | 111,002 | 25,956 | 193,450 |
| St.Croix | 113,372 | 3,243 | -- | -- | 18,646 | 16,839 | -- | 42,373 | 32,271 |
| Sauk | 563,748 | 4,173 | -- | 11,447 | 210,438 | 164,280 | 12,693 | 49,921 | 110,796 |
| Tempealeau | 390,487 | -- | -- | -- | 114,963 | 165,457 | -- | 23,760 | 86,307 |
| Vernon | 788,675 | -- | -- | 4,753 | 270,544 | 211,156 | 83,889 | 1,522 | 216,811 |
| Total | 6,039,113 | 92,288 | -- | 59,819 | 1,698,953 | 1,695,075 | 425,061 | 387,112 | 1,680,805 |
| **SOUTHEAST UNIT** | | | | | | | | | |
| Brown | 162,959 | -- | -- | 874 | 19,319 | 6,441 | 25,655 | 8,607 | 102,063 |
| Calumet | 51,617 | -- | -- | 11,998 | 2,212 | -- | 4,250 | -- | 33,157 |
| Columbia | 259,221 | -- | -- | 4,225 | 47,765 | 155,238 | -- | 12,131 | 39,862 |
| Dane | 322,788 | 3,561 | -- | 6,741 | 35,877 | 182,310 | -- | 22,926 | 71,373 |
| Dodge | 60,643 | -- | -- | -- | 5,911 | 10,316 | 1,824 | 4,862 | 37,730 |
| Door | 280,462 | -- | 9,522 | 90,707 | 1,704 | -- | 54,366 | 25,229 | 98,934 |
| Fond du Lac | 139,445 | 22,048 | -- | 3,781 | 11,689 | 26,599 | 10,218 | 1,066 | 64,044 |
| Green | 118,640 | -- | 1,249 | 8,339 | 21,808 | 25,729 | 10,717 | -- | 50,798 |
| Green Lake | 45,251 | -- | -- | -- | 16,739 | 15,340 | -- | -- | 13,172 |
| Jefferson | 146,388 | 1,400 | -- | -- | 29,746 | 37,469 | 28,112 | -- | 49,661 |
| Kenosha | 24,849 | -- | -- | 1,918 | 5,042 | 9,893 | -- | -- | 7,996 |
| Kewaunee | 137,906 | -- | -- | 48,278 | 1,575 | -- | 20,067 | 1,225 | 66,761 |
| Manitowoc | 186,802 | -- | -- | 35,618 | 15,877 | 3,924 | 35,514 | 10,174 | 85,695 |
| Milwaukee | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Outagamie | 185,690 | 17,447 | -- | 29,182 | 3,992 | 10,029 | 3,846 | 15,432 | 105,762 |
| Ozaukee | 52,763 | -- | -- | 4,281 | -- | 6,157 | -- | -- | 42,325 |
| Racine | 20,456 | -- | -- | -- | 2,501 | 12,419 | 2,267 | -- | 3,269 |
| Rock | 78,471 | 938 | -- | -- | 4,695 | 47,613 | -- | -- | 25,225 |
| Sheboygan | 109,692 | -- | 2,579 | 13,918 | 28,191 | 6,860 | 23,623 | 3,134 | 31,387 |
| Walworth | 132,216 | -- | -- | -- | 24,630 | 73,024 | -- | 1,686 | 32,876 |
| Washington | 97,240 | -- | -- | 6,795 | 8,235 | 6,724 | 19,838 | 4,164 | 51,484 |
| Waukesha | 94,043 | -- | -- | -- | 34,612 | 31,252 | -- | 1,960 | 26,219 |
| Winnebago | 66,904 | -- | -- | -- | 14,945 | 3,791 | 2,605 | 9,883 | 35,680 |
| Total | 2,774,446 | 45,394 | 13,350 | 266,655 | 337,065 | 671,128 | 242,902 | 122,479 | 1,075,473 |
| All counties | 35,035,413 | 3,066,511 | 1,740,195 | 5,122,140 | 4,555,263 | 4,048,748 | 3,384,420 | 4,040,695 | 9,077,441 |

1966-86
NORTH CENTRAL
FOREST
EXPERIMENT STATION
20th Anniversary